

U.S EPA Region III Analytical Request Form

Revision 11.09

OASO/AUSE ONLY			
Control#	C15365	IRAS#	
DAS#	R33907	NSF#	
PRBS#		Analytical Unit	7 days

Date: 01/04/2012		Site Activity: Removal Site Evaluation	
Site Name: Dimock Residential Groundwater Site		Street Address: Ex. 6 - Personal Privacy	
City: Dimock	State: PA 18847	Latitude:	Longitude:
Program: Superfund	Acct. #: 2012 T03N303DC6A3TARS00	CERCLIS #: Unknown	
Site ID: N/A	Spill ID: A3TA	Operable Unit:	
Site Specific QA Plan Submitted: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		Title: Residential Well Sampling QA/QC Work Plan	
		Date Approved: ???	
EPA Project Leader: Rich Fetzer	Phone#: 215-341-6307	Cell Phone #: 215-341-6307	E-mail: rfetzer@epa.gov
Request Preparer: Gene Nance	Phone#: 740-867-0968	Cell Phone #: 304-830-1442	E-mail:
Site Leader: Suddha Graves	Phone#: 304-230-1230	Cell Phone #: 304-830-1441	E-mail:
Contractor: TechLaw, Inc.		EPA CO/PO: Denise T. Jones/Karen Esposito	
#Samples 71	Matrix: drinking water	Parameter: Total Metals; ICP-AES (Ca*, Fe, K, Mg*, Na)	Method: 200.7/200.8
#Samples 71	Matrix: drinking water	Parameter: Total Metals; CLP TAL; ICP-MS + Li	Method: 200.8
#Samples 71	Matrix: drinking water	Parameter: Total Mercury	Method: 245.1
#Samples 71	Matrix: drinking water	Parameter: Dissolved Metals; ICP-AES (Ca*, Fe, K, Mg*, Na)	Method: 200.7/200.8
#Samples 71	Matrix: drinking water	Parameter: Dissolved Metals; CLP TAL; ICP-MS + Li	Method: 200.8
#Samples 71	Matrix: drinking water	Parameter: Dissolved Mercury	Method: 245.1
#Samples 71	Matrix: drinking water	Parameter: TDS	Method: 2540C
#Samples 71	Matrix: drinking water	Parameter: TSS	Method: 2540D
#Samples 71	Matrix: drinking water	Parameter: Anions -- Sulfate, Chloride, Bromide, Fluoride, Ortho-phosphorus, nitrite/nitrate	Method: 300.0
#Samples 71	Matrix: drinking water	Parameter: Nitrate+Nitrite combined	Method: 353.2
#Samples 71	Matrix: drinking water	Parameter: Total nitrogen	Method: 353.2
#Samples 71	Matrix: drinking water	Parameter: Total P	Method: 365.4
#Samples 71	Matrix: drinking water	Parameter: hardness	Method: 2340B
#Samples 71	Matrix: drinking water	Parameter: carbonate and bicarbonate alkalinities	Method: SM2320B
#Samples 71	Matrix: drinking water	Parameter: oil and grease	Method: 1664A
#Samples 71	Matrix: drinking water	Parameter: Alcohols: methanol, ethanol, propanol, 1-butanol, 2-butanol	Method: 8015D

#Samples 71	Matrix: drinking water	Parameter: Glycols + 2-Butoxyethanol	Method: Method 8321M
#Samples 71	Matrix drinking water	Parameter: VOC + acrylonitrile + TICs + 2-methoxyethanol	Method: CLP OLC03.2
#Samples 71	Matrix: drinking water	Parameter: SVOC + TICs + 2-methoxyethanol + 1-methylnapthalene	Method: CLP OLC03.2
#Samples 71	Matrix: drinking water	Parameter: ethylene glycol	Method: 8015D
Ship Date From: Jan 10, 2012		Ship Date To: Jan 20, 2012	Org. Validation Level M3 Inorg. Validation Level IM2
Unvalidated Data Requested: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, TAT Needed: <input type="checkbox"/> 24hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 72hrs <input checked="" type="checkbox"/> 7days <input type="checkbox"/> Other (Specify) 5 DAY PRs			
Validated Data Package Due: <input type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input checked="" type="checkbox"/> 35 days <input type="checkbox"/> 42 days <input type="checkbox"/> Other (Specify)			
Electronic Data Deliverables Required: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (EDDs will be provided in Region 3 EDD Format) if available			
<p>Special Instructions: TICs required for VOC and SVOC analysis. Samples will be screened for orthophosphorus and based on screening results -- samples will be analyzed for Total Phosphorus. Request Preliminary Results (PRs) or expedited TATs for the following parameters, if feasible: bis(2-ethylhexyl)phthalate (SVOCs); 2-methoxyethanol; ethylene glycol; triethylene glycol and diethylene glycol (glycols analysis); and Al, As, Li, Mn, Na, and Fe (total metals analysis).</p>			

FORM ARF- 03/05

To summarize, a 5-day TAT for preliminary results is desired/requested for the following compounds/analytes:

- Methane, ethane, ethene (RSK-175);
- bis(2-ethylhexyl) phthalate (DEHP) (part of SVOC analysis by OLC03.2);
- aluminum, arsenic, lithium, manganese, sodium, iron (part of total metals analysis);
- 2-methoxyethanol (Ethylene glycol monomethyl ether);
- ethylene glycol; and
- triethylene glycol, and 2,2'-oxybisethanol (diethylene glycol).

U.S EPA Region III Analytical Request Form

Revision 11.09

OASO USE ONLY			
Control#	C15865	RAS#	
DAS#	R33908	INS#	
PES#		Analytical Unit	7days

Date: 01/04/2012		Site Activity: Removal Site Evaluation	
Site Name: Dimock Residential Groundwater Site		Street Address: Ex. 6 - Personal Privacy	
City: Dimock	State: PA 18847	Latitude:	Longitude:
Program: Superfund	Acct. #: 2012 T03N303DC6A3TARS00	CERCLIS #: Unknown	
Site ID: N/A	Spill ID: A3TA	Operable Unit:	
Site Specific QA Plan Submitted: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		Title: Residential Well Sampling QA/QC Work Plan	
		Date Approved: ???	
EPA Project Leader: Rich Fetzner	Phone#: 215-341-6307	Cell Phone #: 215-341-6307	E-mail: rfetzer@epa.gov
Request Preparer: Gene Nance	Phone#: 740-867-0968	Cell Phone #: 304-830-1442	E-mail: gnance@techlawinc.com
Site Leader: Suddha Graves	Phone#: 304-230-1230	Cell Phone #: 304-830-1441	E-mail: sgraves@techlawinc.com
Contractor: TechLaw, Inc.		EPA CO/PO: Denise T. Jones/Karen Esposito	
#Samples 71	Matrix: drinking water	Parameter: d13C and d2H of methane (isotech)	Method: ISOTECH
#Samples 71	Matrix: drinking water	Parameter: d13C of inorganic carbon (isotech)	Method: ISOTECH
#Samples 71	Matrix: drinking water	Parameter: Stable isotopes of water (O,H) (isotech)	Method: ISOTECH
#Samples 71	Matrix: drinking water	Parameter: Complete compositional analysis of headspace gas (isotech)	Method: ISOTECH
#Samples 71	Matrix: drinking water	Parameter: Diss. gases methane, ethane, ethene (isotech)	Method: ISOTECH
Ship Date From: Jan 10, 2012		Ship Date To: Jan 20, 2012	Org. Validation Level M3
		Inorg. Validation Level IM2	
Unvalidated Data Requested: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, TAT Needed: <input type="checkbox"/> 24hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 72hrs <input checked="" type="checkbox"/> 7days <input type="checkbox"/> Other (Specify)			
Validated Data Package Due: <input type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input checked="" type="checkbox"/> 35 days <input type="checkbox"/> 42 days <input type="checkbox"/> Other (Specify)			
Electronic Data Deliverables Required: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (EDDs will be provided in Region 3 EDD Format) if available			
Special Instructions:			

FORM ARF- 03/05

DIM0205286

DIM0205288

U.S EPA Region III Analytical Request Form

Revision 11.09

OASO USE ONLY			
Control #	C15365	RAS #	
DAS #	R33909	NSR #	
BES #		Analytical Date	7days

Date: 01/04/2012		Site Activity: Removal Site Evaluation	
Site Name: Dimock Residential Groundwater Site		Street Address: <small>Ex. 6 - Personal Privacy</small>	
City: Dimock	State: PA 18847	Latitude:	Longitude:
Program: Superfund	Acct. #: 2012 T03N303DC6A3TARS00	CERCLIS #: Unknown	
Site ID: N/A	Spill ID: A3TA	Operable Unit:	
Site Specific QA Plan Submitted: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		Title: Residential Well Sampling QA/QC Work Plan	
		Date Approved: ???	
EPA Project Leader: Rich Fetzner	Phone#: 215-341-6307	Cell Phone #: 215-341-6307	E-mail: rfetzer@epa.gov
Request Preparer: Gene Nance	Phone#: 740-867-0968	Cell Phone #: 304-830-1442	E-mail: gnance@techlawinc.com
Site Leader: Suddha Graves	Phone#: 304-230-1230	Cell Phone #: 304-830-1441	E-mail: sgraves@techlawinc.com
Contractor: TechLaw, Inc.		EPA CO/PO: Denise T. Jones/Karen Esposito	
#Samples 71	Matrix: drinking water	Parameter: MBAS	Method: SM5540C
#Samples	Matrix: drinking water	Parameter:	Method:
Ship Date From: Jan 10, 2012	Ship Date To: Jan 20, 2012	Org. Validation Level M3	Inorg. Validation Level IM2
Unvalidated Data Requested: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, TAT Needed: <input type="checkbox"/> 24hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 72hrs <input checked="" type="checkbox"/> 7days <input type="checkbox"/> Other (Specify)			
Validated Data Package Due: <input type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input checked="" type="checkbox"/> 35 days <input type="checkbox"/> 42 days <input type="checkbox"/> Other (Specify)			
Electronic Data Deliverables Required: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (EDDs will be provided in Region 3 EDD Format) if available			
Special Instructions:			

RF- 03/05FORM A

DIM0205286

DIM0205290



RE: Dimock: Number of samples for Rad analysis

Nance, Gene

to:

Fred Foreman, Richard Rupert

02/08/2012 01:13 PM

Cc:

Cindy White, Cynthia Metzger, Cynthia Caporale, "Graves, Suddha", "Whitlock, Kimberly", "MacDonald, Nikki", "Dellamia, Scout", John Kwedar

Hide Details

From: "Nance, Gene" <Gnance@TechLawInc.com> Sort List...

To: Fred Foreman/ESC/R3/USEPA/US@EPA, Richard Rupert/R3/USEPA/US

Cc: Cindy White/MTG/USEPA/US@EPA, Cynthia Metzger/ESC/R3/USEPA/US@EPA, Cynthia Caporale/ESC/R3/USEPA/US@EPA, "Graves, Suddha" <Sgraves@TechLawInc.com>, "Whitlock, Kimberly" <kwhitlock@TechLawInc.com>, "MacDonald, Nikki" <nmacdonald@TechLawInc.com>, "Dellamia, Scout" <SDellamia@TechLawInc.com>, John Kwedar/ESC/R3/USEPA/US@EPA

1 Attachment



CT5865-R33910_Rev01.doc

Fred, Rupert:

Attached is the revised analytical request I submitted last week to increase the number of samples. This estimate was based on a total of ~ 60 residences to be sampled, two samples per residence, 12 duplicates, and one field blank per day (estimated 20). I'm not sure if this estimate is still valid.

Gene Nance

TechLaw, Inc.

740.867.0968 (office)

304.830.1442 (mobile)

From: Fred Foreman [<mailto:Foreman.Fred@epamail.epa.gov>]

Sent: Wednesday, February 08, 2012 12:52 PM

To: Richard Rupert

Cc: Cindy White; Nance, Gene; Cynthia Metzger; Cynthia Caporale

Subject: Dimock: Number of samples for Rad analysis

Rich,

Cindy White from NAREL has expressed a concern about the final number of samples expected to be received for RAD analysis. The projected number was approximately 71 samples, with approximately 52 having been received to-date. Is the final number going to exceed the original 71 samples projected? If so, Cindy needs to know to make scheduling adjustments in her lab.

Fred

Fred Foreman, Chief
Technical Services Branch
Office of Analytical Services & Quality Assurance
US EPA Region III
Ft. Meade, Maryland
410-305-2629

U.S EPA Region III Analytical Request Form

Revision 11.09

OASQA USE ONLY			
Control #	CT5865	RAS #	
DAS #	R33910	NSF #	
PES #		Analytical TAT	7 days

Date: 01/10/2012 revised 2/2/12		Site Activity: Removal Site Evaluation	
Site Name: Dimock Residential Groundwater Site		Street Address: PA <small>Ex. 6 - Personal Privacy</small>	
City: Dimock	State: PA 18847	Latitude:	Longitude:
Program: Superfund	Acct. #: 2012 T03N303DC6A3TARS00	CERCLIS #: Unknown	
Site ID: N/A	Spill ID: A3TA	Operable Unit:	
Site Specific QA Plan Submitted: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		Title: Residential Well Sampling QA/QC Work Plan	
		Date Approved: Jan 19, 2012	
EPA Project Leader: Rich Fetzner	Phone#: 215-341-6307	Cell Phone #: 215-341-6307	E-mail: rfetzer@epa.gov
Request Preparer: Gene Nance	Phone#: 740-867-0968	Cell Phone #: 304-830-1442	E-mail: gnance@techlawinc.com
Site Leader: Suddha Graves	Phone#: 304-230-1230	Cell Phone #: 304-830-1441	E-mail: sgraves@techlawinc.com
Contractor: TechLaw, Inc.		EPA CO/PO: Denise T. Jones/Karen Esposito	
#Samples 152	Matrix: drinking water	Parameter: alpha spectroscopy Th-228, Th-230, Th-232	Method: HASL 300
#Samples 152	Matrix: drinking water	Parameter: alpha spectroscopy U-234, U-235, U238	Method: HASL 300
#Samples 152	Matrix: drinking water	Parameter: gamma spec: Bi-212, Bi-214, K-40, Ra-226, Ra228	Method: 901.1
#Samples 152	Matrix: drinking water	Parameter: gamma spec: Th-234, U235	Method: 901.1
#Samples 152	Matrix: drinking water	Parameter: Gross alpha/beta	Method: 900.0
#Samples 152	Matrix: drinking water	Parameter: Ra-226	Method: 903.1
#Samples 152	Matrix: drinking water	Parameter: Ra-228	Method: 904.0
Ship Date From: Jan 24, 2012		Ship Date To: Feb 24, 2012	Org. Validation Level M3
		Inorg. Validation Level IM2	
Unvalidated Data Requested: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, TAT Needed: <input type="checkbox"/> 24hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 72hrs <input checked="" type="checkbox"/> 7days <input type="checkbox"/> Other (Specify)			
Validated Data Package Due: <input type="checkbox"/> 14 days <input checked="" type="checkbox"/> 21 days <input type="checkbox"/> 35 days <input type="checkbox"/> 42 days <input type="checkbox"/> Other (Specify)			
Electronic Data Deliverables Required: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (EDDs will be provided in Region 3 EDD Format) if available			
Special Instructions: Number of samples reflects the revised total number for the project.			

U.S EPA Region III Analytical Request Form

Revision 11.09

OASO USE ONLY			
Control#	GT5865	RAS#	
DAS#	R33910	NSF#	
PES#		Analytical TAT	7 days

Date: 01/04/2012		Site Activity: Removal Site Evaluation	
Site Name: Dimock Residential Groundwater Site		Street Address: Ex. 6 - Personal Privacy	
City: Dimock	State: PA 18847	Latitude:	Longitude:
Program: Superfund	Acct. #: 2012 T03N303DC6A3TARS00	CERCLIS #: Unknown	
Site ID: N/A	Spill ID: A3TA	Operable Unit:	
Site Specific QA Plan Submitted: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		Title: Residential Well Sampling QA/QC Work Plan	
		Date Approved: ???	
EPA Project Leader: Rich Fetzner	Phone#: 215-341-6307	Cell Phone #: 215-341-6307	E-mail: rfetzer@epa.gov
Request Preparer: Gene Nance	Phone#: 740-867-0968	Cell Phone #: 304-830-1442	E-mail: gnance@techlawinc.com
Site Leader: Suddha Graves	Phone#: 304-230-1230	Cell Phone #: 304-830-1441	E-mail: sgraves@techlawinc.com
Contractor: TechLaw, Inc.		EPA CO/PO: Denise T. Jones/Karen Esposito	
#Samples 71	Matrix: drinking water	Parameter: alpha spectroscopy Th-228, Th-230, Th-232	Method: HASL 300
#Samples 71	Matrix: drinking water	Parameter: alpha spectroscopy U-234, U-235, U236, U238	Method: HASL 300
#Samples 71	Matrix: drinking water	Parameter: gamma spec: Bi-212, Bi-214, K-40, Ra-226, Ra228	Method: 901.1
#Samples 71	Matrix: drinking water	Parameter: gamma spec: Th-232, Th-234, U-234, U235, U238	Method: 901.1
#Samples 71	Matrix: drinking water	Parameter: Gross alpha/beta	Method: 900.0
#Samples 71	Matrix: drinking water	Parameter: Ra-226	Method: 903.1
#Samples 71	Matrix: drinking water	Parameter: Ra-228	Method: 904.0
Ship Date From: Jan 10, 2012		Ship Date To: Jan 20, 2012	
		Org. Validation Level M3	
		Inorg. Validation Level IM2	
Unvalidated Data Requested: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, TAT Needed: <input type="checkbox"/> 24hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 72hrs <input checked="" type="checkbox"/> 7days <input type="checkbox"/> Other (Specify)			
Validated Data Package Due: <input type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input checked="" type="checkbox"/> 35 days <input type="checkbox"/> 42 days <input type="checkbox"/> Other (Specify)			
Electronic Data Deliverables Required: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (EDDs will be provided in Region 3 EDD Format) if available			
Special Instructions:			

DIM0205286

DIM0205296



To: Cindy White/MTG/USEPA/US,
Cc: clients.r3@epa.gov, "Nance, Gene" <Gnance@TechLawInc.com>,
Bcc:
Subject: Fw: Clarification of Analysis Gamma Spectroscopy by NAREL R33910
From: John Kwedar/ESC/R3/USEPA/US - Monday 01/23/2012 07:51 AM

Cindy:

Please review the attached and advise if the six 1-liter poly containers referred to below will be adequate for the requested analyses.

Thank you,

John Kwedar
Technical Services Branch, OASQA
EPA Region III
701 Mapes Road
Ft. Meade, MD 20755-5350
410-305-3021(voice)
410-305-3095(fax)
kwedar.john@epa.gov

----- Forwarded by John Kwedar/ESC/R3/USEPA/US on 01/23/2012 07:50 AM -----

From: "Nance, Gene" <Gnance@TechLawInc.com>
To: Fred Foreman/ESC/R3/USEPA/US@EPA, Kevin Martin/ESC/R3/USEPA/US@EPA, Stevie Wilding/ESC/R3/USEPA/US, John Kwedar/ESC/R3/USEPA/US@EPA
Cc: "Carter, Joe" <Jcarter@TechLawInc.com>, "Graves, Suddha" <Sgraves@TechLawInc.com>, "Burris, Brian" <Bburris@TechLawInc.com>, R3 Clients@EPA
Date: 01/20/2012 03:47 PM
Subject: Clarification of Analysis Gamma Spectroscopy by NAREL R33910

Kevin, Stevie, Fred, *et al* :

When we received the DAS assignment for the radiochemistry (attached), it had broken out the gamma spectroscopy analysis into two line items as shown below.

Parameter: gamma spec: Bi-212, Bi-214, K-40, Ra-226, Ra228
--

Parameter: gamma spec: Th-232, Th-234, U-234, U235, U238
--

We are assuming that this will not require any additional sample containers. Can someone verify this with NAREL? We are planning to collect and submit six 1-liter poly containers per sample for all of the NAREL analyses.

Thanks.

Gene Nance
TechLaw, Inc.
740.867.0968 (office)
304.830.1442 (mobile)



CT5865-R33910.doc



Clarification of Analysis Gamma Spectroscopy by NAREL R33910

Nance, Gene

to:

Fred Foreman, Kevin Martin, Stevie Wilding, John Kwedar

01/20/2012 03:47 PM

Cc:

"Carter, Joe", "Graves, Suddha", "Burris, Brian", R3 Clients

Hide Details

From: "Nance, Gene" <Gnance@TechLawInc.com>

To: Fred Foreman/ESC/R3/USEPA/US@EPA, Kevin Martin/ESC/R3/USEPA/US@EPA, Stevie Wilding/ESC/R3/USEPA/US, John Kwedar/ESC/R3/USEPA/US@EPA

Cc: "Carter, Joe" <Jcarter@TechLawInc.com>, "Graves, Suddha" <Sgraves@TechLawInc.com>, "Burris, Brian" <Bburris@TechLawInc.com>, R3 Clients@EPA

1 Attachment



CT5865-R33910.doc

Kevin, Stevie, Fred, *et al*:

When we received the DAS assignment for the radiochemistry (attached), it had broken out the gamma spectroscopy analysis into two line items as shown below.

Parameter: gamma spec: Bi-212, Bi-214, K-40, Ra-226, Ra228
--

Parameter: gamma spec: Th-232, Th-234, U-234, U235, U238
--

We are assuming that this will not require any additional sample containers. Can someone verify this with NAREL? We are planning to collect and submit six 1-liter poly containers per sample for all of the NAREL analyses.

Thanks.

Gene Nance

TechLaw, Inc.

740.867.0968 (office)

304.830.1442 (mobile)

U.S EPA Region III Analytical Request Form

Revision 11.09

DO NOT USE ONLY			
Control#	C15365	IRAS#	
DAS#	R33911	NSI#	
RES#		Analytical Unit	7 days/5 DAY PRs

Date: 01/04/2012		Site Activity: Removal Site Evaluation	
Site Name: Dimock Residential Groundwater Site		Street Address: Ex. 6 - Personal Privacy	
City: Dimock	State: PA 18847	Latitude:	Longitude:
Program: Superfund	Acct. #: 2012 T03N303DC6A3TARS00	CERCLIS #: Unknown	
Site ID: N/A	Spill ID: A3TA	Operable Unit:	
Site Specific QA Plan Submitted: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		Title: Residential Well Sampling QA/QC Work Plan	
		Date Approved: ???	
EPA Project Leader: Rich Fetzner	Phone#: 215-341-6307	Cell Phone #: 215-341-6307	E-mail: rfetzer@epa.gov
Request Preparer: Gene Nance	Phone#: 740-867-0968	Cell Phone #: 304-830-1442	E-mail: gnance@techlawinc.com
Site Leader: Suddha Graves	Phone#: 304-230-1230	Cell Phone #: 304-830-1441	E-mail: sgraves@techlawinc.com
Contractor: TechLaw, Inc.		EPA CO/PO: Denise T. Jones/Karen Esposito	
#Samples 71	Matrix: drinking water	Parameter: dissolved gases: methane, ethane, ethene, propane, butane	Method: RSK175/
#Samples 71	Matrix: drinking water	Parameter: DRO	Method: 8015D
#Samples 71	Matrix: drinking water	Parameter: GRO	Method: 8015D
Ship Date From: Jan 10, 2012		Ship Date To: Jan 20, 2012	
Unvalidated Data Requested: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		Org. Validation Level M3	
If Yes, TAT Needed: <input type="checkbox"/> 24hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 72hrs <input checked="" type="checkbox"/> 7days		Inorg. Validation Level IM2	
Validated Data Package Due: <input type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input checked="" type="checkbox"/> 35 days <input type="checkbox"/> 42 days <input type="checkbox"/> Other (Specify)			
Electronic Data Deliverables Required: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (EDDs will be provided in Region 3 EDD Format) if available			
Special Instructions:			

FORM ARF- 03/05

DIM0205286

DIM0205302

To summarize, a 5-day TAT for preliminary results is desired/requested for the following compounds/analytes:

- Methane, ethane, ethene (RSK-175);
- bis(2-ethylhexyl) phthalate (DEHP) (part of SVOC analysis by OLC03.2);
- aluminum, arsenic, lithium, manganese, sodium, iron (part of total metals analysis);
- 2-methoxyethanol (Ethylene glycol monomethyl ether);
- ethylene glycol; and
- triethylene glycol, and 2,2'-oxybisethanol (diethylene glycol).

U.S EPA Region III Analytical Request Form

Revision 11.09

OASOQA USE ONLY			
Control #	C15865	RASH	
DAS #	R33912	NSF #	
APES #		Analytical Unit	7 days

Date: 01/04/2012		Site Activity: Removal Site Evaluation	
Site Name: Dimock Residential Groundwater Site		Street Address: Ex. 6 - Personal Privacy	
City: Dimock	State: PA 18847	Latitude:	Longitude:
Program: Superfund	Acct. #: 2012 T03N303DC6A3TARS00	CERCLIS #: Unknown	
Site ID: N/A	Spill ID: A3TA	Operable Unit:	
Site Specific QA Plan Submitted: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		Title: Residential Well Sampling QA/QC Work Plan	
		Date Approved: ???	
EPA Project Leader: Rich Fetzer	Phone#: 215-341-6307	Cell Phone #: 215-341-6307	E-mail: rfetzer@epa.gov
Request Preparer: Gene Nance	Phone#: 740-867-0968	Cell Phone #: 304-830-1442	E-mail: gnance@techlawinc.com
Site Leader: Suddha Graves	Phone#: 304-230-1230	Cell Phone #: 304-830-1441	E-mail: sgraves@techlawinc.com
Contractor: TechLaw, Inc.		EPA CO/PO: Denise T. Jones/Karen Esposito	
#Samples 71	Matrix: drinking water	Parameter: Bacteria (total coliform, HPC)	Method: 9222D
#Samples 71	Matrix: drinking water	Parameter: Turbidity, Nephelometric (Field measurement)	Method: 180.1
Ship Date From: Jan 10, 2012		Ship Date To: Jan 20, 2012	Org. Validation Level M3
		Inorg. Validation Level IM2	
Unvalidated Data Requested: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, TAT Needed: <input type="checkbox"/> 24hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 72hrs <input checked="" type="checkbox"/> 7days <input type="checkbox"/> Other (Specify)			
Validated Data Package Due: <input type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input checked="" type="checkbox"/> 35 days <input type="checkbox"/> 42 days <input type="checkbox"/> Other (Specify)			
Electronic Data Deliverables Required: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (EDDs will be provided in Region 3 EDD Format) if available			
Special Instructions:			

FORM ARF- 03/05

DIM0205286

DIM0205304

U.S EPA Region III Analytical Request Form

Revision 11.09

DO NOT WRITE IN THESE SPACES			
Control #	GT58781	IRAS #	
DAS #	R33917	NSF #	
UBES #		Analytical TAT	14 DAYS

Date: 01/20/2012		Site Activity: Removal Site Evaluation	
Site Name: Dimock Residential Groundwater Site		Street Address:	Ex. 6 - Personal Privacy
City: Dimock	State: PA 18847	Latitude:	Longitude:
Program: Superfund	Acct. #: 2012 T03N303DC6A3TARS00	CERCLIS #: Unknown	
Site ID: N/A	Spill ID: A3TA	Operable Unit:	
Site Specific QA Plan Submitted: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		Title: Residential Well Sampling QA/QC Work Plan	
		Date Approved: January 8, 2012	
EPA Project Leader: Rich Fetzner	Phone#: 215-341-6307	Cell Phone #: 215-341-6307	E-mail: fetzer.richard@epa.gov
Request Preparer: Gene Nance	Phone#: 740-867-0968	Cell Phone #: 304-830-1442	E-mail: gnance@techlawinc.com
Site Leader: Suddha Graves	Phone#: 304-230-1230	Cell Phone #: 304-830-1441	E-mail: sgraves@techlawinc.com
Contractor: TechLaw, Inc.		EPA CO/PO: Denise T. Jones/Karen Esposito	
#Samples: up to 130	Matrix: drinking water	Parameter: Coliform -- Total and Fecal	Method: SM 9222B
#Samples: up to 130	Matrix: drinking water	Parameter: Heterotrophic Plate Count (Bacteria)	Method: SM 9215B
# Samples: up to 130	Matrix: drinking water	Parameter: Ethylene glycol	Method: SW846 8015M
#Samples 20	Matrix: drinking water	Parameter: compositional analysis of headspace gas -- GC MS	Method: Isotech proprietary method
#Samples 20	Matrix: drinking water	Parameter: d ¹³ C and d ² H of methane	Method: Isotech proprietary method
#Samples 20	Matrix: drinking water	Parameter: Stable isotopes of water (O, H)	Method: Isotech proprietary method
Ship Date From: Jan 30, 2012		Ship Date To: March 2, 2012	Org. Validation Level M3
		Inorg. Validation Level	
Unvalidated Data Requested: <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, TAT Needed: <input type="checkbox"/> 24hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 72hrs <input type="checkbox"/> 7days <input type="checkbox"/> Other (Specify) not applicable			
Validated Data Package Due: <input checked="" type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input checked="" type="checkbox"/> 35 days <input type="checkbox"/> 42 days <input type="checkbox"/> Other (Specify) 14-day TAT-bacteria; 35-day ethylene glycol and headspace/isotopes			
Electronic Data Deliverables Required: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (EDDs will be provided in Region 3 EDD Format) if available			
Special Instructions:			
Request for data validation of Tier IV data.			
<ul style="list-style-type: none"> - Compositional headspace gas analysis, d¹³ C and d² H of methane, and Stable isotopes of water (O, H) analysis will be performed by Isotech Laboratories, Inc, located in Champaign, IL using proprietary methods. Isotech QAPP is attached. - Bacteria: Coliform (Total and fecal) and heterotrophic plate count (HPC). - Ethlene glycol analysis by Pace Analytical, Indianapolis Laboratory. 			

FORM ARF- 03/05

DIM0205286

DIM0205306



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE: February 27, 2012

SUBJECT: Region III Data QA Review

FROM: Colleen Walling *Colleen K. Walling*
Region III ESAT RPO (3EA20)

TO: Rich Fetzer
Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (DAS:# R33917; SDG: #5057872) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0042 TDF: 02115 Data Validation
TO: #0042 TDF: #02085 Sample log-in processing

cc: Gene Nance (Techlaw)
Suddha Graves (Techlaw)

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ESAT DATA VALIDATION EVALUATION CHECKLIST

Contract # EP-W-06-016

Task Order #: 0042 TDF #: 02085/02115 Revision #: 0 Project #: R33917
 Site Name: Dimock Project #: 5057872
 Analysis Type: Organic SOW #: N/A
 Reviewer: Ex. 4 - CBI
 CLP Laboratory: Cedar Creek

EPA CLP TPO: Howard Pham
 EPA RPM:
 cc: EPA

Region: 5

Number of hours spent on review: 1
 Number of samples: 8
 Validation Type: M3
 Flat File Required Yes X No

Date submitted to EPA: 2/27/12

CRITERIA	YES	NO	COMMENTS
Format according to Region III protocol	✓		
Clarity of report	✓		
Qualifiers applied correctly	✓		
Consistency between narrative and data summary form(s)	✓		
Error-free transcription	✓		

EFFICIENCY OF CONTRACTOR	YES	NO	COMMENTS
Approval recommended for current submission	✓		
Time spent on review is reasonable	✓		
Technical Evaluation	4.0		James L. C. Burr 2/27/2012 EPA Oversight

ESD OVERSIGHT

DATES

Received at EPA
 Oversight assigned
 Oversight received
 Oversight completed
 Feedback given
 Mailed to RPM

EPA
 2/27/2012
 2/27/2012

Oversight J.A.B.
 2/27/2012
 2/27/2012

ESAT

SP 2/27/12
 posted to O. drill

ESAT DATA VALIDATION EVALUATION CHECKLIST

Contract # EP-W-06-016

Task Order #: 0042 TDF #: 02085/02115 Revision #: 0 Project #: R33917
 Site Name: Dimock Project #: 5057872
 Analysis Type: Organic SOW #: N/A
 Reviewer: Ex. 4 - CBI
 CLP Laboratory Code: PACE

EPA CLP TPO: Howard Pham
 EPA RPM:
 cc: EPA

Region: 5

Number of hours spent on review: 1
 Number of samples: 8
 Validation Type: M3
 Flat File Required Yes X No

Date submitted to EPA: 2/27/12

CRITERIA	YES	NO	COMMENTS
Format according to Region III protocol	✓		
Clarity of report	✓		
Qualifiers applied correctly	✓		
Consistency between narrative and data summary form(s)	✓		
Error-free transcription	✓		

EFFICIENCY OF CONTRACTOR	YES	NO	COMMENTS
Approval recommended for current submission	✓		
Time spent on review is reasonable	✓		
Technical Evaluation	4.0		James L. C. 2/27/2012 EPA Oversight

ESD OVERSIGHT

DATES

Received at EPA
 Oversight assigned
 Oversight received
 Oversight completed
 Feedback given
 Mailed to RPM

EPA
 2/27/2012
 2/27/2012

Oversight J.A.B.
 2/27/2012
 2/27/2012

ESAT

posted to O. drill

C

C

Lockheed Martin IS&GS -- Civil
Energy & Environment
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

DATE: February 27, 2012
SUBJECT: Organic Data Validation (Level M3)
Site: Dimock
CASE: R33917, PROJECT: 5057872

FROM: Ex. 4 - CBI
Senior Data Reviewer

Ex. 4 - CBI
Senior Oversight Chemist

TO: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Case R33917, Project 5057872, from the Dimock site consisted of eight (8) aqueous samples including one (1) field blank and one (1) rinsate blank analyzed for ethylene glycol. All samples were submitted to Pace Analytical Services Incorporated (PACE). The samples were analyzed according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). No problems were detected during validation of these data.

NOTES

- No positive results were reported in the field samples in this data set. Therefore, no confirmation analyses were required.
- Samples EB01 and FB06 were assumed to be the rinsate and field blanks, respectively. The laboratory used sample EB01 for the Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses.
- Reported recoveries and Relative Percent Differences (RPDs) in the Laboratory Control Sample (LCS) analysis and MS/MSD analyses of sample EB01 were within control limits.

- The laboratory stated in the case narrative that method 8015B was used in the analyses of these samples. However, method 8015C is referenced as the method used for the analyses in the raw data. No action was taken by the reviewer based on this finding.

ATTACHMENTS

- 1) Appendix A - Glossary of Data Qualifiers
- 2) Appendix B - Data Summary Forms
- 3) Appendix C - Chain of Custody (COC) Records
- 4) Appendix D - Laboratory Case Narrative

DCN: R33917_Project 5057872DimockM3

Appendix A

Glossary of Data Qualifiers

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B

Data Summary Forms

Case #: R33917 Project : 5057872
 Site : DIMOCK
 Lab. : PACE

Number of Water Samples : 8

Sample Number :		EB01		FB06		HW13		HW18		HW18-P	
Sample Station Location:		EB01		FB06		HW13		HW18		HW18	
Laboratory ID :		5057872001		5057872002		5057872003		5057872004		5057872005	
Field QC :		Rinsate Blank		Field Blank							
Matrix :		Water		Water		Water		Water		Water	
Units :		mg/L		mg/L		mg/L		mg/L		mg/L	
Date Sampled :		1/28/2012		1/30/2012		1/30/2012		1/30/2012		1/30/2012	
Time Sampled :		11:26		09:30		11:23		11:27		11:52	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										

Sample Number :		HW20		HW20-P		HW25-P					
Sample Station Location:		HW20		HW20		HW25					
Laboratory ID :		5057872006		5057872007		5057872008					
Field QC :											
Matrix :		Water		Water		Water					
Units :		mg/L		mg/L		mg/L					
Date Sampled :		1/30/2012		1/30/2012		1/30/2012					
Time Sampled :		16:12		16:29		15:32					
Dilution Factor :		1.0		1.0		1.0					
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III

Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE : February 27, 2012

SUBJECT: Region III Data QA Review

FROM: Colleen Walling *Colleen K. Walling*
Region III ESAT RPO (3EA20)

TO: Rich Fetzer
Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (DAS:# R33917; SDG: #5058051) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0042 TDF: 02116 Data Validation
TO: #0042 TDF: #02085 Sample log-in processing

cc: Gene Nance (Techlaw)
Suddha Graves (Techlaw)

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ESAT DATA VALIDATION EVALUATION CHECKLIST

Contract # EP-W-06-016

Task Order #: 0042 TDF #: 02116 Revision #: 0 Case/DAS #: R33917
 Site Name: Dimock SDG #: 5058051
 Analysis Type: Organic SOW #: SW-846 Method 8015B
 Reviewer: Ex. 4 - CBI
 CLP Laboratory Code: PACE

EPA CLP TPO: Howard Pham
 EPA RPM:
 cc:

Region: 5

Number of hours spent on review: 1.5

Number of samples: 20

Validation Type: M3

Flat File Required Yes No

Date submitted to EPA: 2/27/12

CRITERIA	YES	NO	COMMENTS
Format according to Region III protocol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Clarity of report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Qualifiers applied correctly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Consistency between narrative and data summary form(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Error-free transcription	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

EFFICIENCY OF CONTRACTOR	YES	NO	COMMENTS
Approval recommended for current submission	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Time spent on review is reasonable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Technical Evaluation	4.0		

Jamuel A. Bunn 2/27/2012
 EPA Oversight

ESD OVERSIGHT

DATES

EPA

Oversight

ESAT

Received at EPA
 Oversight assigned
 Oversight received
 Oversight completed
 Feedback given
 Mailed to RPM

2/27/2012
 2/27/2012

2/27/2012
 2/27/2012

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US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

LOCKHEED MARTIN
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Date: February 27, 2012

Subject: Organic Data Validation (M3 Level)
Case: R33917
Project: 5058051
Site: Dimock

From: **Ex. 4 - CBI**
Organic Data Reviewer

Ex. 4 - CBI
Senior Oversight Chemist

To: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Third party Case R33917, Project 5058051, consisted of twenty (20) aqueous samples including three (3) field blanks analyzed for ethylene glycol. Samples were analyzed by Pace Analytical (PACE) according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). No problems were detected during the validation of this data set.

NOTES

- The laboratory stated in the case narrative that Method 8015B was used in the analyses of these samples. However, method 8015C is referenced as the method used for the analyses in the raw data. No action was taken by the reviewer based on this finding
- Reported recoveries and Relative Percent Differences (RPDs) in Laboratory Control Sample (LCS) analysis and MS/MSD analyses of samples HW34a-P and HW35 were within control limits.
- No positive results were reported by the laboratory for the samples in this sample set.

ATTACHMENTS

Appendix A – Glossary of Data Qualifier Codes

Appendix B – Data Summary Form(s)

Appendix C – Chain of Custody Records

Appendix D – Laboratory Case Narrative

DCN: R33917_ 5058051

Appendix A

Glossary of Data Qualifier Codes

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B
Data Summary Forms

DATA SUMMARY FORM: Volatiles

Page 1 of 1

Case #: R33917

Project : 5058051

Site :

DIMOCK

Number of Water Samples : 20

Lab.:

PACE

Sample Number :	FB07	FB08	FB09	HW26	HW26-P						
Station Location :	FB07	FB08	FB09	HW26	HW26						
Laboratory ID :	5058051001	5058051002	5058051003	5058051004	5058051005						
Field QC :	Field Blank	Field Blank	Field Blank								
Matrix :	Water	Water	Water	Water	Water						
Units :	mg/L	mg/L	mg/L	mg/L	mg/L						
Date Sampled :	01/31/2012	02/01/2012	02/02/2012	01/31/2012	01/31/2012						
Time Sampled :	14:15	14:45	10:15	10:26	11:37						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										

Sample Number :		HW29		HW29z		HW32		HW32-P		HW33		
Station Location :		HW29		HW29		HW32		HW32		HW33		
Laboratory ID :		5058051006		5058051007		5058051008		5058051009		5058051010		
Matrix :		Water		Water		Water		Water		Water		
Units :		mg/L		mg/L		mg/L		mg/L		mg/L		
Date Sampled :		01/31/2012		01/31/2012		02/01/2012		02/01/2012		02/01/2012		
Time Sampled :		18:18		18:18		10:45		10:50		10:49		
Dilution Factor :		1.0		1.0		1.0		1.0		1.0		
Volatile Compound		RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol		10										

Sample Number :		HW33a-P		HW33b-P		HW34a		HW34a-P		HW35	
Station Location :		HW33a		HW33b		HW34a		HW34a		HW35	
Laboratory ID :		5058051011		5058051012		5058051013		5058051014		5058051015	
Matrix :		Water		Water		Water		Water		Water	
Units :		mg/L		mg/L		mg/L		mg/L		mg/L	
Date Sampled :		02/01/2012		02/01/2012		02/01/2012		02/01/2012		01/31/2012	
Time Sampled :		10:42		11:42		15:47		15:55		11:49	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										

Sample Number :		HW42		HW42z		HW46		HW46-P		HW52	
Station Location :		HW42		HW42		HW46		HW46		HW52	
Laboratory ID :		5058051016		5058051017		5058051018		5058051019		5058051020	
Matrix :		Water		Water		Water		Water		Water	
Units :		mg/L		mg/L		mg/L		mg/L		mg/L	
Date Sampled :		02/02/2012		02/02/2012		02/02/2012		02/02/2012		01/31/2012	
Time Sampled :		10:28		10:29		11:39		11:24		15:22	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										

RL = Reporting Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE : February 27, 2012

SUBJECT: Region III Data QA Review

FROM: Colleen Walling *Colleen K. Walling*
Region III ESAT RPO (3EA20)

TO: Rich Fetzer
Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (DAS:# R33917; SDG: #5058185) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0042 TDF: 02114 Data Validation
TO: #0042 TDF: #02085 Sample log-in processing

cc: Gene Nance (Techlaw)
Suddha Graves (Techlaw)

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ESAT DATA VALIDATION EVALUATION CHECKLIST

Contract # EP-W-06-016

Task Order #: 0042 TDF #: 02114 Revision #: 0 Case/DAS #: R33917
 Site Name: Dimock SDG #: 5058185
 Analysis Type: Oceanic SOW #: SW-846 Method 8015B
 Reviewer: Ex. 4 - CBI
 CLP Laboratory Code: PACE

EPA CLP TPO: Howard Pham

Region: 5

EPA RPM: Gene Nance

cc: ✓

Number of hours spent on review: 3

Number of samples: 12

Validation Type: M3

Flat File Required

Yes No

Date submitted to EPA: 2/24/12

CRITERIA

YES

NO

COMMENTS

Format according to
Region III protocol

✓

Clarity of report

✓

Qualifiers applied
correctly

✓

Consistency between
narrative and data
summary form(s)

✓

Error-free transcription

✓

EFFICIENCY OF CONTRACTOR

YES

NO

COMMENTS

Approval recommended
for current submission

✓

Time spent on review
is reasonable

✓

Technical Evaluation

4.1

[Signature] Feb 27, 2012
EPA Oversight

ESD OVERSIGHT

DATES

EPA

Oversight

ESAT

Received at EPA

2/24/2012 elw

Oversight assigned

2/24/2012

Oversight received

2-24-2012

Oversight completed

2-27-2012

Feedback given

Mailed to RPM

[Signature] 2/27/12
posted to C drive

C

C

Lockheed Martin IS&GS – Civil
Energy & Environment
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597



Date: February 24, 2012

Subject: Organic Data Validation (M3 Level)
Case: R33917
Project: 5058185
Site: Dimock

From: **Ex. 4 - CBI**
Organic Data Reviewer

Ex. 4 - CBI
Senior Oversight Chemist

To: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Third party Case R33917, Project 5058185, consisted of twelve (12) aqueous samples including one (1) field blank analyzed for ethylene glycol. Samples were analyzed by Pace Analytical (PACE) according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). No problems were detected during the validation of this data set.

NOTES

- Sample FB10 was assumed to be a field blank by the data reviewer. This sample was used for Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses by the laboratory.
- Reported recoveries and Relative Percent Difference (RPD) in Laboratory Control Sample (LCS) analysis and MS/MSD analyses of sample FB10 were within control limits.
- No positive results were reported by the laboratory for the samples in this sample set.

ATTACHMENTS

Appendix A – Glossary of Data Qualifier Codes

Appendix B – Data Summary Form(s)

Appendix C – Chain of Custody Records

Appendix D – Laboratory Case Narrative

DCN: R33917_ 5058185

Appendix A

Glossary of Data Qualifier Codes

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

DATA SUMMARY FORM: Volatiles

Page 1 of 1

Case #: R33917

Project : 5058185

Site :

DIMOCK

Lab. :

PACE

Number of Water Samples : 12

Sample Number :		FB10		HW09		HW09-P		HW28a		HW28a-P		
Station Location :		FB10		HW09		HW09		HW28a		HW28a		
Laboratory ID :		5058185001		5058185002		5058185003		5058185004		5058185005		
Field QC :		Field Blank										
Matrix :		Water		Water		Water		Water		Water		
Units :		mg/L		mg/L		mg/L		mg/L		mg/L		
Date Sampled :		02/03/2012		02/03/2012		02/03/2012		02/03/2012		02/03/2012		
Time Sampled :		14:09		15:20		15:16		11:49		11:52		
Dilution Factor :		1.0		1.0		1.0		1.0		1.0		
Volatile Compound		RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol		10										

Sample Number :		HW28b-P		HW39		HW39-P		HW40		HW40-P	
Station Location :		HW28b		HW39		HW39		HW40		HW40	
Laboratory ID :		5058185006		5058185007		5058185008		5058185009		5058185010	
Matrix :		Water		Water		Water		Water		Water	
Units :		mg/L		mg/L		mg/L		mg/L		mg/L	
Date Sampled :		02/03/2012		02/03/2012		02/03/2012		02/02/2012		02/02/2012	
Time Sampled :		14:27		10:42		11:13		15:39		15:44	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										

Sample Number :		HW41		HW41-P							
Station Location :		HW41		HW41							
Laboratory ID :		5058185011		5058185012							
Matrix :		Water		Water							
Units :		mg/L		mg/L							
Date Sampled :		02/02/2012		02/02/2012							
Time Sampled :		16:12		15:54							
Dilution Factor :		1.0		1.0							
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										

RL = Reporting Limit

SEE NARRATIVE FOR CODE DEFINITIONS:

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE : February 24, 2012
SUBJECT: Region III Data QA Review
FROM: Colleen Walling *Colleen Walling*
Region III ESAT RPO (3EA20)
TO: Rich Fetzer
Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (DAS# R33917; SDG #: 480-15712-1) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0042 TDF: 02101 Data Validation
TO: #0042 TDF: #02085 Sample log-in processing

cc: Gene Nance (Techlaw)
Suddha Graves (Techlaw)

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ESAT DATA VALIDATION EVALUATION CHECKLIST

Contract # EP-W-06-016

020751

Task Order #: 0042 TDF #: 0261 Revision #: 0 Case/DAS #: R33917
 Site Name: Dimock SDG #: 480-15712-1
 Analysis Type: Organic SOW #: SW-846 Method 8015B
 Reviewer: Ex. 4 - CBI
 CLP Laboratory Code: TAL BUF

EPA CLP TPO: Jennifer Feranda
 EPA RPM:
 cc:

Region: 2
 Number of hours spent on review: 5
 Number of samples: 19
 Validation Type: M3
 Flat File Required Yes No

Date submitted to EPA: 2/23/12

CRITERIA	YES	NO	COMMENTS
Format according to Region III protocol	/		
Clarity of report	/		
Qualifiers applied correctly	/		
Consistency between narrative and data summary form(s)	/		
Error-free transcription	/		

EFFICIENCY OF CONTRACTOR	YES	NO	COMMENTS
Approval recommended for current submission	/		
Time spent on review is reasonable	/		
Technical Evaluation	3.1		M. J. Maly EPA Oversight

ESD OVERSIGHT

DATES	EPA	Oversight	ESAT
Received at EPA	2/23/2012		
Oversight assigned	2/23/2012		
Oversight received		2/24/12	
Oversight completed		2/24/12	
Feedback given			
Mailed to RPM			

Lockheed Martin IS&GS – Civil
Energy & Environment
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597



Date: February 23, 2012

Subject: Organic Data Validation (M3 Level)
Case: R33917
Project: 480-15712-1
Site: Dimock

From: **Ex. 4 - CBI**
Organic Data Reviewer

Ex. 4 - CBI
Senior Oversight Chemist

To: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Third party Case R33917, Project 480-15712-1, consisted of nineteen (19) aqueous samples including one (1) field blank analyzed for ethylene glycol, diethylene glycol, triethylene glycol, 2-methoxyethanol and 2-ethoxyethanol. Samples were analyzed by TestAmerica Buffalo (TAL BUF) according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). Areas of concern with respect to data usability are listed below.

MAJOR PROBLEM

- Peaks were detected in the GC/FID Method 8015B glycols analysis within the retention time window of target compounds diethylene glycol and triethylene glycol. However, the positive identification of these target compounds was not confirmed via second GC column and/or GC/MS analysis. For this reason, the target compounds were qualified "R" on the Data Summary Forms (DSFs) as their absolute identity could not be proven.

MINOR PROBLEM

- The laboratory employed a four (4) point calibration curve for the analysis of the compounds requested; however, Method 8015B specifies the use of a five (5) point curve. No action was taken by the reviewer based on this deviation from the method.

NOTES

- Reported recoveries and Relative Percent Differences (RPDs) in Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analyses and Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of sample HW34a were within control limits.
- The calibration factors calculated by the reviewer were slightly different than those calculated by the laboratory. Results calculated using these calibration factors were within rounding errors from laboratory and data validation results.

ATTACHMENTS

Appendix A – Glossary of Data Qualifier Codes
Appendix B – Data Summary Form(s)
Appendix C – Chain of Custody Records
Appendix D – Laboratory Case Narrative

DCN: R33917_480-15712-1

Appendix A

Glossary of Data Qualifier Codes

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B

Data Summary Forms

DATA SUMMARY FORM: Volatiles

Page 1 of 2

Case #: R33917

Project : 480-15712-1

Site :

DIMOCK

Number of Water Samples : 19

Lab. :

TAL BUF

Sample Number :	FB07	HW18	HW18-P	HW20	HW20-P						
Sampling Location :	FB07	HW18	HW18	HW20	HW20						
Laboratory ID :	480-15712-1	480-15712-2	480-15712-3	480-15712-4	480-15712-5						
Field QC :	Field Blank										
Matrix :	Water	Water	Water	Water	Water						
Units :	mg/L	mg/L	mg/L	mg/L	mg/L						
Date Sampled :	01/31/2012	01/30/2012	01/30/2012	01/30/2012	01/30/2012						
Time Sampled :	14:15	11:27	11:52	16:12	16:29						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										
Triethylene glycol	10	3.5	R	2.0	R						
Diethylene glycol	10	0.82	R	0.75	R	0.68	R	0.67	R	0.72	R
2-Methoxyethanol	10										
2-Ethoxyethanol	10										

Sample Number :		HW25-P		HW26		HW26-P		HW29		HW29z	
Sampling Location :		HW25		HW26		HW26		HW29		HW29	
Laboratory ID :		480-15712-6		480-15712-7		480-15712-8		480-15712-9		480-15712-10	
Matrix :		Water		Water		Water		Water		Water	
Units :		mg/L		mg/L		mg/L		mg/L		mg/L	
Date Sampled :		01/30/2012		01/31/2012		01/31/2012		01/31/2012		01/31/2012	
Time Sampled :		15:32		10:26		11:37		18:18		18:18	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										
Triethylene glycol	10			4.1	R	1.7	R				
Diethylene glycol	10	0.67	R	0.98	R	0.73	R	0.62	R	0.74	R
2-Methoxyethanol	10										
2-Ethoxyethanol	10										

RL = Reporting Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: Volatiles

Page 2 of 2

Case #: R33917

Project : 480-15712-1

Site :

DIMOCK

Lab. :

TAL BUF

Sample Number :		HW32		HW32-P		HW33		HW33a-P		HW33b-P	
Sampling Location :		HW32		HW32		HW33		HW33a		HW33b	
Laboratory ID :		480-15712-11		480-15712-12		480-15712-13		480-15712-14		480-15712-15	
Matrix :		Water		Water		Water		Water		Water	
Units :		mg/L		mg/L		mg/L		mg/L		mg/L	
Date Sampled :		02/01/2012		02/01/2012		02/01/2012		02/01/2012		02/01/2012	
Time Sampled :		10:45		10:50		10:49		10:42		11:42	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										
Triethylene glycol	10	1.7	R								
Diethylene glycol	10	0.75	R	0.94	R	0.51	R	0.97	R	0.89	R
2-Methoxyethanol	10										
2-Ethoxyethanol	10										

Sample Number :		HW34a		HW34a-P		HW35		HW52			
Sampling Location :		HW34a		HW34a		HW35		HW52			
Laboratory ID :		480-15712-16		480-15712-17		480-15712-18		480-15712-19			
Matrix :		Water		Water		Water		Water			
Units :		mg/L		mg/L		mg/L		mg/L			
Date Sampled :		02/01/2012		02/01/2012		01/31/2012		01/31/2012			
Time Sampled :		15:47		15:55		11:49		15:22			
Dilution Factor :		1.0		1.0		1.0		1.0			
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										
Triethylene glycol	10			3.0	R						
Diethylene glycol	10			0.95	R			0.90	R		
2-Methoxyethanol	10										
2-Ethoxyethanol	10										

RL = Reporting Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE : February 24, 2012
SUBJECT: Region III Data QA Review
FROM: Colleen Walling *Colleen Walling*
Region III ESAT RPO (3EA20)
TO: Rich Fetzer
Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (DAS#: R33917; Case #: 480-15814-1) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0042 TDF: 02097 Data Validation
TO: #0042 TDF: #02085 Sample log-in processing

cc: Gene Nance (Techlaw)
Suddha Graves (Techlaw)

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ESAT DATA VALIDATION EVALUATION CHECKLIST

Contract # EP-W-06-016

TO# 0042 TDF# 00097 Data Validation CLW 2/22/12
 Task Order #: 0042 TDF #: 02085 Revision #: 0 Project #: R33917
 Site Name: Dimock Project #: 480-15814-1
 Analysis Type: Ex. 4 - CBI SOW #: N/A
 Reviewer: Ex. 4 - CBI
 CLP Laboratory Code: TALB4F

EPA CLP TPO: Daniel Slizys

Region: 3

EPA RPM:

cc: EPA

Number of hours spent on review: 6

Number of samples: 20

Validation Type: M3

Flat File Required Yes X No

Date submitted to EPA: 2/22/12

CRITERIA	YES	NO	COMMENTS
Format according to Region III protocol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Clarity of report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Qualifiers applied correctly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Consistency between narrative and data summary form(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Error-free transcription	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

EFFICIENCY OF CONTRACTOR	YES	NO	COMMENTS
Approval recommended for current submission	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Time spent on review is reasonable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Technical Evaluation	4.0		<div data-bbox="761 1453 1510 1617" data-label="Text"> <p><u>James A. Burns</u> 2/22/2012 EPA Oversight 2/24/2012</p> </div>

ESD OVERSIGHT

DATES

EPA

Oversight

ESAT

Received at EPA
 Oversight assigned
 Oversight received
 Oversight completed
 Feedback given
 Mailed to RPM

2/22/2012
 2/22/2012

2/22/2012
 2/22/2012
 2/24/2012

2/22/12
 posted to S: drive

Lockheed Martin IS&GS – Civil
Energy & Environment
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

LOCKHEED MARTIN
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Date: February 22, 2012

Subject: Organic Data Validation (M3 Level)
Case: R33917
Project: 480-15814-1
Site: Dimock

From: Ex. 4 - CBI
Senior Data Reviewer

Ex. 4 - CBI
Senior Oversight Chemist

To: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Third party Case R33917, Project 480-15814-1, consisted of twenty (20) aqueous samples including three (3) field blanks and one (1) rinsate blank analyzed for ethylene glycol, diethylene glycol, triethylene glycol, 2-methoxyethanol and 2-ethoxyethanol. Samples were analyzed by TestAmerica Buffalo (TAL BUF) according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). Areas of concern with respect to data usability are listed below.

MAJOR PROBLEM

- Peaks were detected in the GC/FID Method 8015B glycols analysis within the retention time window of target compounds diethylene glycol and triethylene glycol. However, the positive identification of these target compounds was not confirmed via second GC column and/or GC/MS analysis. For this reason, the target compounds were qualified "R" on the Data Summary Forms (DSFs) as their absolute identity could not be proven.

MINOR PROBLEM

- The laboratory employed a four (4) point calibration curve for the analysis of the compounds requested; however, Method 8015B specifies the use of a five (5) point curve. No action was taken by the reviewer based on this deviation from the method.

NOTES

- Reported recoveries and Relative Percent Differences (RPDs) in Laboratory Control Sample (LCS) analyses and Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of sample HW45 were within control limits.
- The calibration factors calculated by the reviewer were slightly different than those calculated by the laboratory. Results calculated using these calibration factors were within rounding errors from laboratory and data validation results.

ATTACHMENTS

Appendix A -- Glossary of Data Qualifier Codes

Appendix B -- Data Summary Form(s)

Appendix C -- Chain of Custody Records

Appendix D -- Laboratory Case Narrative

DCN: R33917_480-15814-1

Appendix A

Glossary of Data Qualifiers

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B

Data Summary Forms

DATA SUMMARY FORM: Glycols

Page 1 of 2

DAS: R33917

PROJECT #: 480-15814-1

Number of Soil Samples : 0

Site :

DIMOCK

Number of Water Samples : 20

Lab. :

TALBUF

Sample Number :	EB02	FB08	FB09	FB10	HW09
Sampling Location :	EB02	FB08	FB09	FB10	HW09
Laboratory ID:	480-15814-1	480-15814-2	480-15814-3	480-15814-4	480-15814-5
Field QC:	Rinsate Blank	Field Blank	Field Blank	Field Blank	
Matrix :	Water	Water	Water	Water	Water
Units :	mg/L	mg/L	mg/L	mg/L	mg/L
Date Sampled :	2/05/2012	2/01/2012	2/02/2012	2/03/2012	2/03/2012
Time Sampled :	15:00	14:45	10:15	14:09	15:20
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Glycols	RL	Result	Flag	Result	Flag
Ethylene glycol	10				
Triethylene glycol	10	4.0	R		
Diethylene glycol	10	0.54	R	0.52	R
2-Methoxyethanol	10				
2-Ethoxyethanol	10				

Sample Number :	HW09-P	HW28A	HW28A-P	HW28B-P	HW39
Sampling Location :	HW09	HW28A	HW28A	HW28B	HW39
Laboratory ID:	480-15814-6	480-15814-7	480-15814-8	480-15814-9	480-15814-10
Field QC:					
Matrix :	Water	Water	Water	Water	Water
Units :	mg/L	mg/L	mg/L	mg/L	mg/L
Date Sampled :	2/03/2012	2/03/2012	2/03/2012	2/03/2012	2/03/2012
Time Sampled :	15:16	11:49	11:52	14:27	14:42
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Glycols	RL	Result	Flag	Result	Flag
Ethylene glycol	10				
Triethylene glycol	10			2.7	R
Diethylene glycol	10	0.51	R	0.59	R
2-Methoxyethanol	10				
2-Ethoxyethanol	10				

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: Glycols

Page 2 of 2

DAS: R33917

PROJECT #: 480-15814-1

Site :

DIMOCK

Lab. :

TALBUF

Sample Number :	HW39-P	HW40	HW40-P	HW41	HW41-P						
Sampling Location :	HW39	HW40	HW40	HW41	HW41						
Laboratory ID:	480-15814-11	480-15814-12	480-15814-13	480-15814-14	480-15814-15						
Field QC:											
Matrix :	Water	Water	Water	Water	Water						
Units :	mg/L	mg/L	mg/L	mg/L	mg/L						
Date Sampled :	2/03/2012	2/02/2012	2/02/2012	2/02/2012	2/02/2012						
Time Sampled :	11:13	15:39	15:44	16:12	15:54						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Glycols	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										
Triethylene glycol	10					3.0	R				
Diethylene glycol	10					0.66	R	0.59	R		
2-Methoxyethanol	10										
2-Ethoxyethanol	10										

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

Sample Number :	HW-42	HW-42Z	HW45	HW46	HW46-P						
Sampling Location :	HW-42	HW-42	HW45	HW46	HW46						
Laboratory ID:	480-15814-16	480-15814-17	480-15814-18	480-15814-19	480-15814-20						
Field QC:											
Matrix :	Water	Water	Water	Water	Water						
Units :	mg/L	mg/L	mg/L	mg/L	mg/L						
Date Sampled :	2/02/2012	2/02/2012	2/02/2012	2/02/2012	2/02/2012						
Time Sampled :	10:28	10:29	10:28	11:39	11:24						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Glycols	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										
Triethylene glycol	10							6.2	R	1.7	R
Diethylene glycol	10					0.55	R	1.8	R	0.54	R
2-Methoxyethanol	10										
2-Ethoxyethanol	10										

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE : February 24, 2012

SUBJECT: Region III Data QA Review

FROM: Colleen Walling *Colleen Walling*
Region III ESAT RPO (3EA20)

TO: Rich Fetzer
Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (DAS#33917; SDG#: 480-15770-1) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0042 TDF: #02096 Data Validation
TO: #0042 TDF: 02085 Sample Log-in Processing

cc: Gene Nance (Techlaw)
Suddha Graves (Techlaw)

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ESAT DATA VALIDATION EVALUATION CHECKLIST

Contract # EP-W-06-016

Task Order #: 0042 TDF #: 02096 Revision #: 0 Case/DAS #: R33917
 Site Name: Dimock SDG #: 480-15770-1
 Analysis Type: Environmental SOW #: SW-846 Method 8015B
 Reviewer: Ex. 4 - CBI
 CLP Laboratory Code: IAL BUF

EPA CLP TPO: Jennifer Feranda

Region: 2

EPA RPM: _____

cc: _____

Number of hours spent on review: 4

Number of samples: 20

Validation Type: M3

Flat File Required Yes ☐ No ☐

Date submitted to EPA: 2/22/12

CRITERIA	YES	NO	COMMENTS
Format according to Region III protocol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Clarity of report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Qualifiers applied correctly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Consistency between narrative and data summary form(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Error-free transcription	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

EFFICIENCY OF CONTRACTOR	YES	NO	COMMENTS
Approval recommended for current submission	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Time spent on review is reasonable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Technical Evaluation	<u>4.0</u>		<u>Jennifer C. Feranda 2/24/2012</u> EPA Oversight

ESD OVERSIGHT

DATES	EPA	Oversight	ESAT
Received at EPA	_____	<u>J.A.B.</u>	
Oversight assigned	_____	<u>2/22/2012</u>	
Oversight received	_____	<u>2/24/2012</u>	
Oversight completed	_____		
Feedback given	_____		
Mailed to RPM	_____		

C

C

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Date: February 22, 2012

Subject: Organic Data Validation (M3 Level)
Case: R33917
Project: 480-15770-1
Site: Dimock

From: Ex. 4 - CBI
Organic Data Reviewer

Ex. 4 - CBI
Senior Oversight Chemist

To: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Third party Case R33917, Project 480-15770-1, consisted of twenty (20) aqueous samples including five (5) field blanks and one (1) rinsate blank analyzed for ethylene glycol, diethylene glycol, triethylene glycol, 2-methoxyethanol and 2-ethoxyethanol. Samples were analyzed by TestAmerica Buffalo (TAL BUF) according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). Areas of concern with respect to data usability are listed below.

MAJOR PROBLEM

- Peaks were detected in the GC/FID Method 8015B glycols analysis within the retention time window of target compounds diethylene glycol and triethylene glycol. However, the positive identification of these target compounds was not confirmed via second GC column and/or GC/MS analysis. For this reason, the target compounds were qualified "R" on the Data Summary Forms (DSFs) as their absolute identity could not be proven.

C

C

MINOR PROBLEM

- The laboratory employed a four (4) point calibration curve for the analysis of the compounds requested; however, Method 8015B specifies the use of a five (5) point curve. No action was taken by the reviewer based on this deviation from the method.

NOTES

- Reported recoveries and Relative Percent Differences (RPDs) in Laboratory Control Sample (LCS) analyses and Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of samples HW02 and HW05 were within control limits.
- The calibration factors calculated by the reviewer were slightly different than those calculated by the laboratory. Results calculated using these calibration factors were within rounding errors from laboratory and data validation results.

ATTACHMENTS

Appendix A – Glossary of Data Qualifier Codes

Appendix B – Data Summary Form(s)

Appendix C – Chain of Custody Records

Appendix D – Laboratory Case Narrative

DCN: R33917_480-15770-1

Appendix A

Glossary of Data Qualifier Codes

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B

Data Summary Forms

DATA SUMMARY FORM: Volatiles

Page 1 of 2

Case #: R33917

Project : 480-15770-1

Site :

DIMOCK

Number of Water Samples : 20

Lab.:

TAL BUF

Sample Number :	HW02	EB01	FB02	FB03	FB04						
Sampling Location :	HW02	EB01	FB02	FB03	FB04						
Laboratory ID :	480-15770-1	480-15770-2	480-15770-3	480-15770-4	480-15770-5						
Field QC :		Equipment Blank	Field Blank	Field Blank	Field Blank						
Matrix :	Water	Water	Water	Water	Water						
Units :	mg/L	mg/L	mg/L	mg/L	mg/L						
Date Sampled :	01/25/2012	01/28/2012	01/24/2012	01/25/2012	01/26/2012						
Time Sampled :	12:58	11:26	12:11	10:01	09:13						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										
Triethylene glycol	10							1.7	R		
Diethylene glycol	10	0.64	R	0.55	R	0.53	R	0.56	R	0.59	R
2-Methoxyethanol	10										
2-Ethoxyethanol	10										

Sample Number :		FB05		FB06		HW01		HW02z		HW04	
Sampling Location :		FB05		FB06		HW01		HW02z		HW04	
Laboratory ID :		480-15770-6		480-15770-7		480-15770-8		480-15770-9		480-15770-10	
Field QC :		Field Blank		Field Blank							
Matrix :		Water		Water		Water		Water		Water	
Units :		mg/L		mg/L		mg/L		mg/L		mg/L	
Date Sampled :		01/27/2012		01/30/2012		01/25/2012		01/25/2012		01/24/2012	
Time Sampled :		09:40		09:30		16:31		12:59		14:33	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										
Triethylene glycol	10										
Diethylene glycol	10	0.56	R	0.56	R	0.56	R	0.54	R	0.52	R
2-Methoxyethanol	10										
2-Ethoxyethanol	10										

RL = Reporting Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: Volatiles

Page 2 of 2

Case #: R33917 Project : 480-15770-1
 Site : DIMOCK
 Lab. : TAL BUF

Sample Number :		HW05		HW06		HW08a		HW12		HW13	
Sampling Location :		HW05		HW06		HW08a		HW12		HW13	
Laboratory ID :		480-15770-11		480-15770-12		480-15770-13		480-15770-14		480-15770-15	
Matrix :		Water		Water		Water		Water		Water	
Units :		mg/L		mg/L		mg/L		mg/L		mg/L	
Date Sampled :		01/26/2012		01/26/2012		01/25/2012		01/26/2012		01/30/2012	
Time Sampled :		11:35		15:30		11:46		13:23		11:23	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										
Triethylene glycol	10	2.2	R			3.0	R				
Diethylene glycol	10	0.68	R							0.57	R
2-Methoxyethanol	10										
2-Ethoxyethanol	10										

Sample Number :		HW14		HW14-P		HW17		HW24		HW24-P	
Sampling Location :		HW14		HW14		HW17		HW24		HW24	
Laboratory ID :		480-15770-16		480-15770-17		480-15770-18		480-15770-19		480-15770-20	
Matrix :		Water		Water		Water		Water		Water	
Units :		mg/L		mg/L		mg/L		mg/L		mg/L	
Date Sampled :		01/26/2012		01/26/2012		01/27/2012		01/27/2012		01/27/2012	
Time Sampled :		17:13		19:15		11:40		12:09		13:18	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										
Triethylene glycol	10										
Diethylene glycol	10	0.59	R	0.56	R	0.54	R	0.57	R	0.56	R
2-Methoxyethanol	10										
2-Ethoxyethanol	10										

RL = Reporting Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE : February 23, 2012
SUBJECT: Region III Data QA Review
FROM: Colleen Walling *Colleen K Walling*
Region III ESAT RPO (3EA20)
TO: Rich Fetzner
Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (DAS# R33917 SDG#: 480-15895-1) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0042 TDF: 02099 Data Validation
TO: #0042 TDF: #02085 Sample log-in processing

cc: Gene Nance (Techlaw)
Suddha Graves (Techlaw)

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ESAT DATA VALIDATION EVALUATION CHECKLIST

Contract # EP-W-06-016

Task Order #: 0042 TDF #: 02085 M⁴ Revision #: 0 Project #: R33917
 Site Name: Dimock Project #: 480-15895-1
 Analysis Type: SOW #: N/A
 Reviewer: **Ex. 4 - CBI**
 CLP Laboratory:

EPA CLP TPO: Daniel Slizys

Region: 3

EPA RPM:

cc: EPA

Number of hours spent on review: 3.5

Number of samples: 12

Validation Type: M3

Flat File Required Yes X No

Date submitted to EPA: 2/23/12

CRITERIA	YES	NO	COMMENTS
Format according to Region III protocol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Clarity of report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Qualifiers applied correctly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Consistency between narrative and data summary form(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Error-free transcription	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

EFFICIENCY OF CONTRACTOR	YES	NO	COMMENTS
Approval recommended for current submission	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Time spent on review is reasonable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Technical Evaluation	4.1		<u>[Signature]</u> Feb-23-2012 EPA Oversight

ESD OVERSIGHT

DATES	EPA	Oversight	ESAT
Received at EPA	2/23/2012	2-23-2012	
Oversight assigned	2/23/2012	2-23-2012	
Oversight received			
Oversight completed			
Feedback given			
Mailed to RPM			

[Signature] 2/23/12
 posted to S. drive

C

C



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Energy & Environment
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

DATE: February 23, 2012

SUBJECT: Organic Data Validation (Level M3)
Site: Dimock
CASE: R33917, PROJECT: 480-15895-1

FROM: Ex. 4 - CBI ✓
Senior Data Reviewer

Ex. 4 - CBI
Senior Oversight Chemist

TO: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Case R33917, Project 480-15895-1, from the Dimock site consisted of twelve (12) aqueous samples analyzed for ethylene glycol. All samples were submitted to TestAmerica (TALBUF) for analysis. The sample set contained one (1) rinsate blank and one (1) field blank. The samples were analyzed according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). No problems were detected during validation of these data.

NOTES

- No positive results were reported in the field samples in this data set. Therefore, no confirmation analyses were required.
- Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) and Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries and Relative Percent Differences (RPDs) were within control limits.
- Sample HW30-P was listed on the Chain of Custody (COC) record. However, a samples container for this sample was not received by the laboratory.

ATTACHMENTS

- 1) Appendix A - Glossary of Data Qualifiers
- 2) Appendix B - Data Summary Forms
- 3) Appendix C - Chain of Custody (COC) Records
- 4) Appendix D - Laboratory Case Narrative

DCN: R33917_Project 480-15895-1DimockM3

Appendix A
Glossary of Data Qualifiers

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B

Data Summary Forms

DATA SUMMARY FORM: Glycols

Page 1 of 1

CASE: R33917

PROJECT #: 480-15895-1

Number of Soil Samples : 0

Site :

DIMOCK

Number of Water Samples : 12

Lab. :

TALBUF

Sample Number :	EB02	FB11	HW15a	HW15a-P	HW30
Sampling Location :	EB02	FB11	HW15a	HW15a	HW30
Laboratory ID:	480-15895-1	480-15895-2	480-15895-3	480-15895-4	480-15895-5
Field QC:					
Matrix :	Water	Water	Water	Water	Water
Units :	mg/L	mg/L	mg/L	mg/L	mg/L
Date Sampled :	2/05/2012	2/06/2012	2/07/2012	2/07/2012	2/06/2012
Time Sampled :	15:00	14:36	10:47	10:55	14:34
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Glycols	RL	Result	Flag	Result	Flag
Ethylene glycol	10				

Sample Number :	HW31	HW31-P	HW31z	HW43	HW43-P
Sampling Location :	HW31	HW31	HW31	HW43	HW43
Laboratory ID:	480-15895-7	480-15895-8	480-15895-9	480-15895-10	480-15895-11
Field QC:					
Matrix :	Water	Water	Water	Water	Water
Units :	mg/L	mg/L	mg/L	mg/L	mg/L
Date Sampled :	2/06/2012	2/06/2012	2/06/2012	2/06/2012	2/06/2012
Time Sampled :	18:20	18:28	18:20	12:06	12:19
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Glycols	RL	Result	Flag	Result	Flag
Ethylene glycol	10				

Sample Number :	HW45	HW45-P			
Sampling Location :	HW45	HW45			
Laboratory ID:	480-15895-12	480-15895-13			
Field QC:					
Matrix :	Water	Water			
Units :	mg/L	mg/L			
Date Sampled :	2/06/2012	2/06/2012			
Time Sampled :	10:28	11:06			
Dilution Factor :	1.0	1.0			
Glycols	RL	Result	Flag	Result	Flag
Ethylene glycol	10				

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE : February 23, 2012

SUBJECT: Region III Data QA Review

FROM: Colleen Walling *Colleen K. Walling*
Region III ESAT RPO (3EA20)

TO: Rich Fetzer
Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (DAS:# R33917; SDG: #480-16100-1) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0042 TDF: 02100 Data Validation
TO: #0042 TDF: #02085 Sample log-in processing

cc: Gene Nance (Techlaw)
Suddha Graves (Techlaw)

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DATA VALIDATION EVALUATION (ECKLIST)
Contract # EP-W-06-016

Task Order #: 0042 TDF #: 02085 ^{02085/02100} Revision #: 0 Project #: R33917
 Site Name: Dimock Project #: 480-16100-1
 Analysis Type: Quantitative SOW #: N/A
 Reviewer: **Ex. 4 - CBI**
 CLP Laboratory Code: TALP

EPA CLP TPO: Daniel Slizys
 EPA RPM: _____
 cc: _____
EPA

Region: 3

Number of hours spent on review: 5
 Number of samples: 20
 Validation Type: M3
 Flat File Required Yes X No

Date submitted to EPA: 2/23/12

<u>CRITERIA</u>	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
Format according to Region III protocol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Clarity of report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Qualifiers applied correctly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Consistency between narrative and data summary form(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Error-free transcription	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

<u>EFFICIENCY OF CONTRACTOR</u>	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
Approval recommended for current submission	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Time spent on review is reasonable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Technical Evaluation	<u>4.1</u>		<u><i>[Signature]</i></u> Feb 23, 2012 EPA Oversight

ESD OVERSIGHT

DATES

EPA

Oversight

ESAT

Received at EPA
 Oversight assigned
 Oversight received
 Oversight completed
 Feedback given
 Mailed to RPM

2/23/2012
2/23/2012 *can*

2-23-2012
2-24-2012

[Signature] 2/23/12
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Energy & Environment
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

DATE: February 23, 2012

SUBJECT: Organic Data Validation (Level M3)
Site: Dimock
CASE: R33917, PROJECT: 480-16100-1

FROM: Ex. 4 - CBI *hu*
Senior Data Reviewer

Ex. 4 - CBI *A.M.*
Senior Oversight Chemist

TO: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Case R33917, Project 480-16100-1, from the Dimock site consisted of twenty (20) aqueous samples analyzed for ethylene glycol. All samples were submitted to TestAmerica (TALBUF) for analysis. The sample set contained three (3) field blanks. The samples were analyzed according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). Areas of concern with data usability are listed below.

MINOR PROBLEM

- The samples were not preserved when received by the laboratory. Samples FB12, HW51 and HW51-P, collected 2/07/2012, were analyzed 2/15/2012 to 2/17/2012. The technical holding time of seven (7) days for unpreserved organic compounds in these samples was exceeded by one (1) to three (3) days. No positive results were reported in this sample. Quantitation limits were qualified "UL" on the Data Summary Form (DSF).

NOTES

- No positive results were reported in the field samples in this data set. Therefore, no confirmation analyses were required.

- Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) and Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries and Relative Percent Differences (RPDs) were within control limits.

ATTACHMENTS

- 1) Appendix A - Glossary of Data Qualifiers
- 2) Appendix B - Data Summary Forms
- 3) Appendix C - Chain of Custody (COC) Records
- 4) Appendix D - Laboratory Case Narrative

DCN: R33917_Project 480-16100-1DimockM3

Appendix A

Glossary of Data Qualifiers

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CODES RELATED TO IDENTIFICATION

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NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B

Data Summary Forms

DATA SUMMARY FORM: Glycols

Page 1 of 1

CASE: R33917

PROJECT #: 480-16100-1

Number of Soil Samples : 0

Site :

DIMOCK

Number of Water Samples : 20

Lab. :

TALBUF

Sample Number :	FB12	FB13	FB14	HW21	HW21Z
Sampling Location :	FB12	FB13	FB14	HW21	HW21
Laboratory ID:	480-16100-1	480-16100-2	480-16100-3	480-16100-4	480-16100-5
Field QC:	Field Blank	Field Blank	Field Blank		
Matrix :	Water	Water	Water	Water	Water
Units :	mg/L	mg/L	mg/L	mg/L	mg/L
Date Sampled :	2/07/2012	2/08/2012	2/09/2012	2/09/2012	2/09/2012
Time Sampled :	13:35	09:00	13:36	10:53	10:53
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Glycols	RL	Result	Flag	Result	Flag
Ethylene glycol	10	UL			

Sample Number :	HW22	HW22-P	HW23	HW23-P	HW38
Sampling Location :	HW22	HW22-P	HW23	HW23-P	HW38
Laboratory ID:	480-16100-6	480-16100-7	480-16100-8	480-16100-9	480-16100-10
Field QC:					
Matrix :	Water	Water	Water	Water	Water
Units :	mg/L	mg/L	mg/L	mg/L	mg/L
Date Sampled :	2/09/2012	2/09/2012	2/08/2012	2/08/2012	2/08/2012
Time Sampled :	10:42	10:50	15:42	15:39	10:41
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Glycols	RL	Result	Flag	Result	Flag
Ethylene glycol	10				

Sample Number :	HW38-P	HW44	HW47	HW47-P	HW48
Sampling Location :	HW38-P	HW44	HW47	HW47-P	HW48
Laboratory ID:	480-16100-11	480-16100-12	480-16100-13	480-16100-14	480-16100-15
Field QC:					
Matrix :	Water	Water	Water	Water	Water
Units :	mg/L	mg/L	mg/L	mg/L	mg/L
Date Sampled :	2/08/2012	2/09/2012	2/08/2012	2/08/2012	2/08/2012
Time Sampled :	10:52	14:49	11:50	12:25	16:06
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Glycols	RL	Result	Flag	Result	Flag
Ethylene glycol	10				

Sample Number :	HW48Z	HW49	HW49-P	HW51	HW51-P
Sampling Location :	HW48	HW49	HW49-P	HW51	HW51-P
Laboratory ID:	480-16100-16	480-16100-17	480-16100-18	480-16100-19	480-16100-20
Field QC:					
Matrix :	Water	Water	Water	Water	Water
Units :	mg/L	mg/L	mg/L	mg/L	mg/L
Date Sampled :	2/08/2012	2/09/2012	2/09/2011	2/07/2012	2/07/2012
Time Sampled :	16:06	14:11	14:26	13:48	13:56
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Glycols	RL	Result	Flag	Result	Flag
Ethylene glycol	10			UL	UL

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE: February 23, 2012
SUBJECT: Region III Data QA Review
FROM: Colleen Walling *Colleen Walling*
Region III ESAT RPO (3EA20)
TO: Rich Fetzer
Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (DAS:# R33917; SDG: #5057788) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

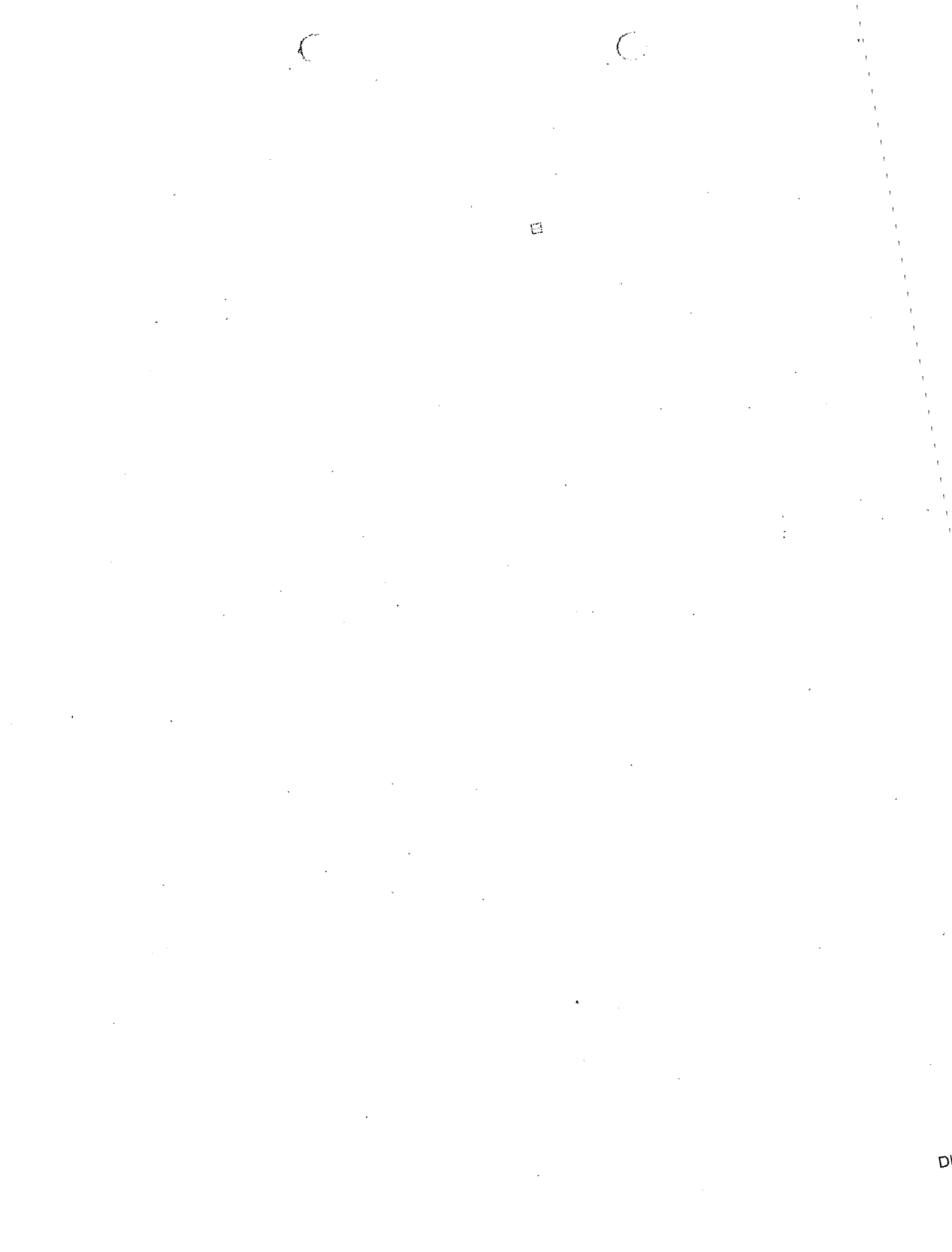
Attachment

TO: #0042 TDF: 02102 Data Validation
TO: #0042 TDF: #02085 Sample log-in processing

cc: Gene Nance (Techlaw)
Suddha Graves (Techlaw)

OFFICE OF ANALYTICAL SERVICES AND QUALITY ASSURANCE

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Colleen

Need a TDF#

for this Dimock Project 02102 - Reporting + DV review

ES DATA VALIDATION EVALUATION CHECKLIST

Contract # EP-W-06-016

Task Order #: 0042

TDF #: 02085 Revision #: 0

Case/DAS #: R33917

Site Name: Dimock

SDG #: 5057788

Analysis T

SOW #: SW-846 Method 8015B

Reviewer: Ex. 4 - CBI

CLP Laboratory Code: TAL BUF

EPA CLP TPO: Howard Pham

Region: 5

EPA RPM:

cc:

Number of hours spent on review: 2.5

Number of samples:

20

Validation Type:

M3

Flat File Required

Yes ☒ No

Date submitted to EPA: 2/23/12

CRITERIA

YES

NO

COMMENTS

Format according to
Region III protocol

✓

Clarity of report

✓

Qualifiers applied
correctly

✓

Consistency between
narrative and data
summary form(s)

✓

Error-free transcription

✓

EFFICIENCY OF
CONTRACTOR

YES

NO

COMMENTS

Approval recommended
for current submission


✓

Time spent on review
is reasonable

✓

Technical Evaluation

4.1


EPA Oversight

Feb 23, 2012

ESD OVERSIGHT

DATES

EPA

Oversight

ESAT

Received at EPA

Oversight assigned


Oversight received

Oversight completed

Feedback given

Mailed to RPM

2/23/2012
2/23/2012


2-23-2012
2-23-2012

Lockheed Martin IS&GS – Civil
Energy & Environment
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

LOCKHEED MARTIN
We never forget who we're working for™

Date: February 23, 2012

Subject: Organic Data Validation (M3 Level)
Case: R33917
Project: 5057788
Site: Dimock

From: Ex. 4 - CBI
Organic Data Reviewer

Ex. 4 - CBI
Senior Oversight Chemist

To: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Third party Case R33917, Project 5057788, consisted of twenty (20) aqueous samples including five (5) field blanks analyzed for ethylene glycol. Samples were analyzed by Pace Analytical (PACE) according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). No problems were detected during the validation of this data set.

NOTES

- Reported recoveries and Relative Percent Difference (RPD) in Laboratory Control Sample (LCS) analysis and Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of sample HW02 were within control limits.
- No positive results were reported by the laboratory for the samples in this sample set.
- Chain-of-Custody records were not included in the data package. Sample information was obtained through laboratory case narrative.

ATTACHMENTS

Appendix A – Glossary of Data Qualifier Codes

Appendix B – Data Summary Form(s)

Appendix C – Laboratory Case Narrative

DCN: R33917_5057788

Appendix A

Glossary of Data Qualifier Codes

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B

Data Summary Forms

DATA SUMMARY FORM: Volatiles

Page 1 of 1

Case #: R33917

Project : 5057788

Site :

DIMOCK

Lab. :

PACE

Number of Water Samples : 20

Sample Number :	FB01	FB02	FB03	FB04	FB05						
Laboratory ID :	5057788001	5057788002	5057788003	5057788004	5057788005						
Field QC :	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank						
Matrix :	Water	Water	Water	Water	Water						
Units :	mg/L	mg/L	mg/L	mg/L	mg/L						
Date Sampled :	01/23/2012	01/24/2012	01/25/2012	01/26/2012	01/27/2012						
Time Sampled :	14:42	12:11	10:01	09:13	09:40						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										

Sample Number :	HW01	HW02	HW02z	HW04	HW05						
Laboratory ID :	5057788006	5057788007	5057788008	5057788009	5057788010						
Matrix :	Water	Water	Water	Water	Water						
Units :	mg/L	mg/L	mg/L	mg/L	mg/L						
Date Sampled :	01/25/2012	01/25/2012	01/25/2012	01/24/2012	01/26/2012						
Time Sampled :	16:31	12:58	12:59	14:33	11:35						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										

Sample Number:		HW06		HW08a		HW12		HW14		HW14-P	
Laboratory ID:		5057788011		5057788012		5057788013		5057788014		5057788015	
Matrix:		Water		Water		Water		Water		Water	
Units:		mg/L		mg/L		mg/L		mg/L		mg/L	
Date Sampled:		01/26/2012		01/25/2012		01/26/2012		01/26/2012		01/26/2012	
Time Sampled:		15:30		11:46		13:23		17:13		19:15	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										

Sample Number :		HW17		HW19		HW19-P		HW24		HW24-P	
Laboratory ID :		5057788016		5057788017		5057788018		5057788019		5057788020	
Matrix :		Water		Water		Water		Water		Water	
Units :		mg/L		mg/L		mg/L		mg/L		mg/L	
Date Sampled :		01/27/2012		01/23/2012		01/23/2012		01/27/2012		01/27/2012	
Time Sampled :		11:40		17:47		19:07		12:09		13:18	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										

RL = Reporting Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

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